## PRODUCT PERFORMANCE / EFFICACY REVIEW

Mark Suarez, Entomologist - IB

**DATE:** 7 August 2007

**EPA REG. NUMBER:** 40849-80

**PRODUCT NAME:** Enforcer Bugmax Home Pest Control

**REGISTRANT:** Enforcer Products

PM: George LaRocca, PM 13

**REVIEWER:** Olga Odiott

**DECISION #.:** 372976 **DP BARCODE:** 335474

ACTION: R34

**ACTIVE INGREDIENT(S):** 097805, deltamethrin.......0.03%

**TYPE:** Outdoor Residential Insecticide

**OPPTS GUIDELINE(S):** 810.1000

810.3000 810.3500

0-0.00

MRID: 46909101 Submitted GLP? Yes

**SITES:** Indoor & Outdoor Use

**PESTS:** Brown Recluse & Black Widow Spiders

**LABEL APPLICATION RATE:** Until surface is slightly moist, but not until runoff

## **STUDY SUMMARY:**

MRID 46989101. Foard, T. (2005) Evaluation of the Efficacy of Enforcer Bugmax 365 against Black Widow and Recluse Spiders. Project Number: G1051004001A144, 1004/105/0115. Unpublished study prepared by Insect Control and Research Inc. 47 p.

A laboratory study was submitted in support of kill claims against black widow (*Latrodectus* spp.) and brown recluse spiders (*Loxosceles* spp.). Five spiders were placed into a bucket sprayed directly with 1.14 to 1.23 g of product from a height of 10 to 18" and then transferred to a clean recovery chamber. Ten replicates were run for each species. Knockdown was recorded at 1 hour and morbidity and mortality were recorded after 24 hours.

The data generated indicate that Black widow spiders are highly susceptible to the product with nearly 100% KD at 1 hour and 100% mortality observed after 24 hours. The brown recluse spider was less affected by the product. Approximately a quarter of spiders were knocked down. After 24 hours, 48% of spiders were found to be dead with an additional 52% moribund.

## ENTOMOLOGIST'S COMMENTS AND RECOMMENDATIONS:

The data provided are adequate to support a direct contact kill claim against black wido spiders (*Latrodectus* spp.) and brown recluse spiders (*Loxosceles* spp.). Although the data provided for brown recluse spiders are did not provide the mortality desired, the combined number of moribund and dead spiders was 100%.

The data neither support claims of quick or fast kill nor are residual claims supported.

Enclosure 040849-00080 S801672-ER